FIG. 1

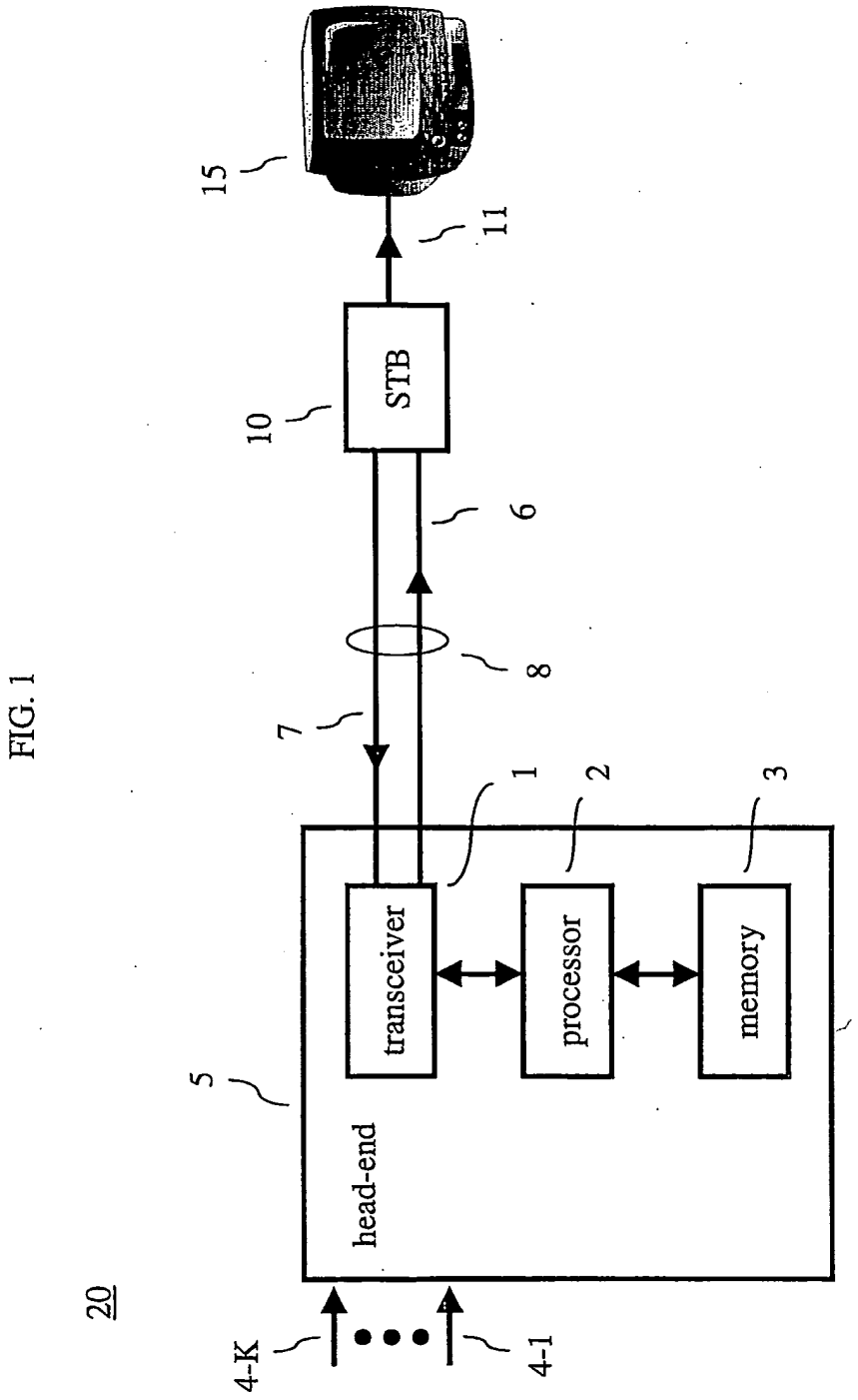

20
4-K
4-1
head-end
5
transceiver
processor
memory
1
2
3
7
8
6
STB
10
11
15

FIG. 2

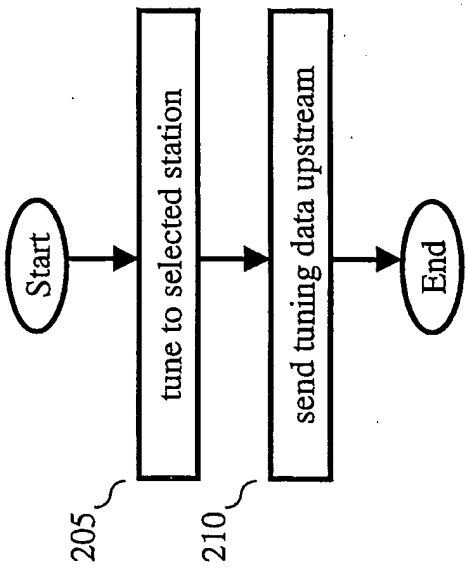

Start
tune to selected station
send tuning data upstream
End
205
210

FIG. 3

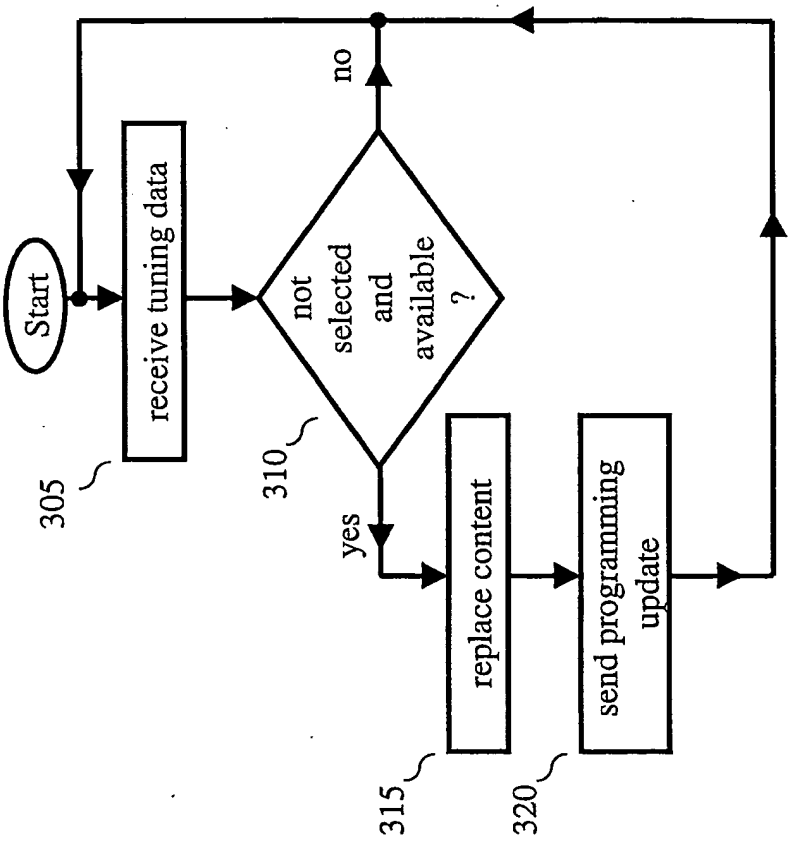

Start
receive tuning data
305
not selected and available ?
310
no
yes
replace content
315
send programming update
320

FIG. 4

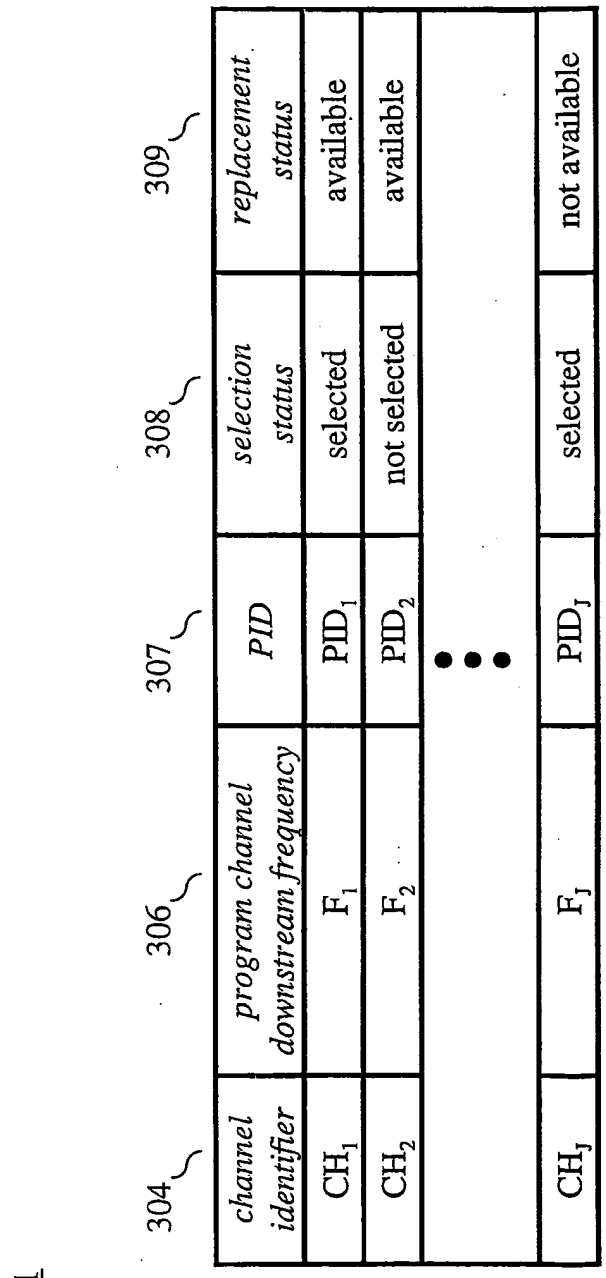

301
304
306
307
308
309
channel identifier
program channel downstream frequency
PID
selection status
replacement status
CH1
F1
PID1
selected
available
CH2
F2
PID2
not selected
available
CHJ
FJ
PIDJ
selected
not available

FIG. 5

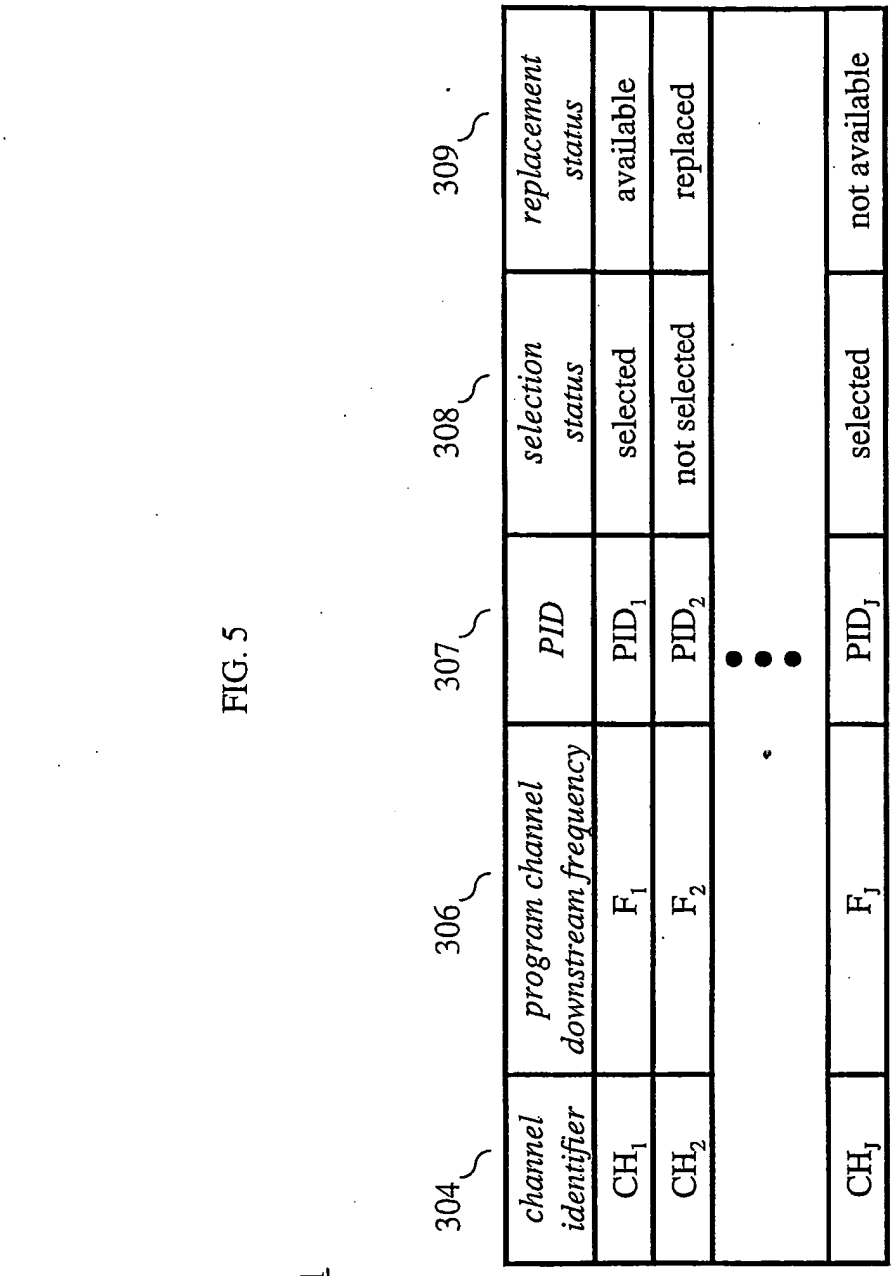

301
304
306
307
308
309
channel identifier
program channel downstream frequency
PID
selection status
replacement status
CH1
F1
PID1
selected
available
CH2
F2
PID2
not selected
replaced
CHJ
FJ
PIDJ
selected
not available

FIG. 6

302

311 *channel identifier*	312 *program channel downstream frequency*	313 *PID*	314 *substitute PID*	316 *substitute channel identifier*
CH_1	F_2	PID_2	PID_R	CH_R

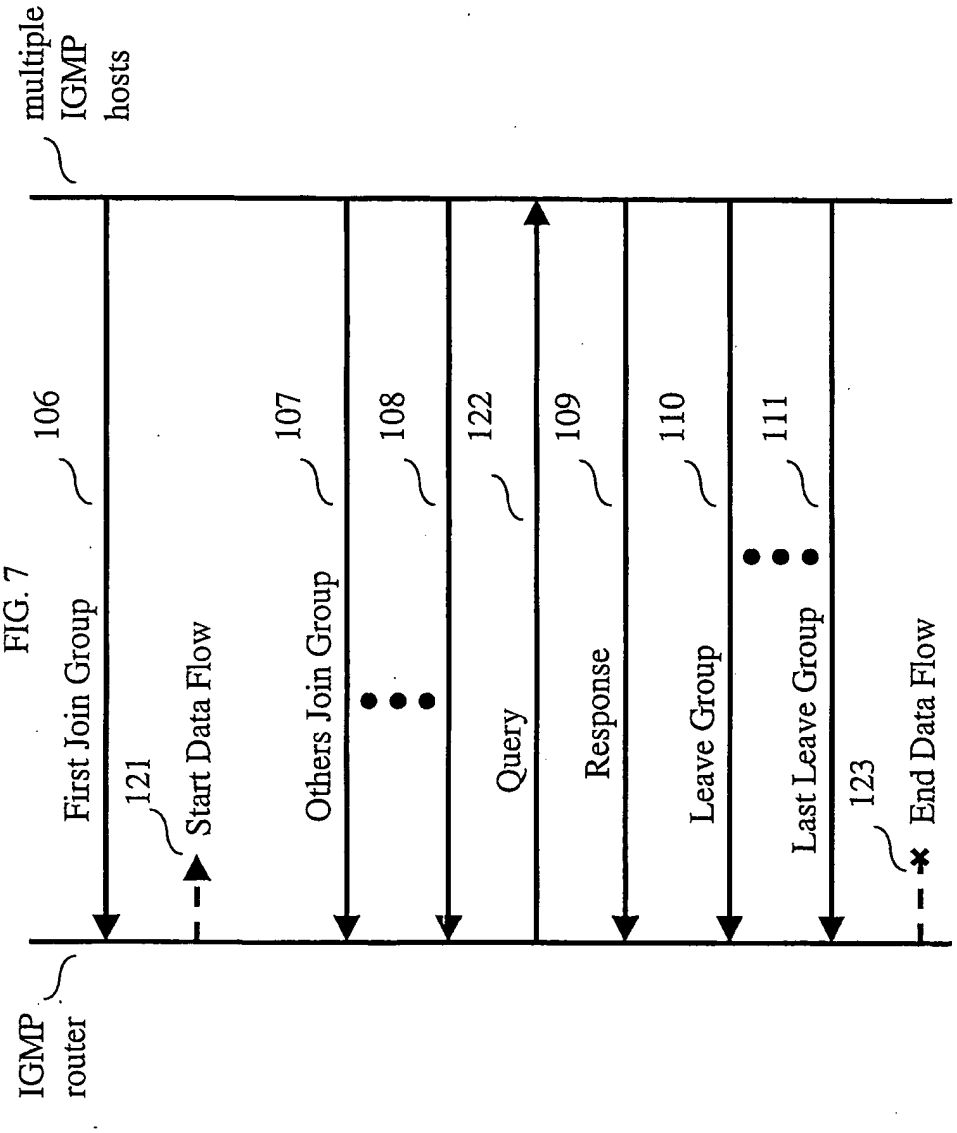


FIG. 7

Prior Art

FIG. 8

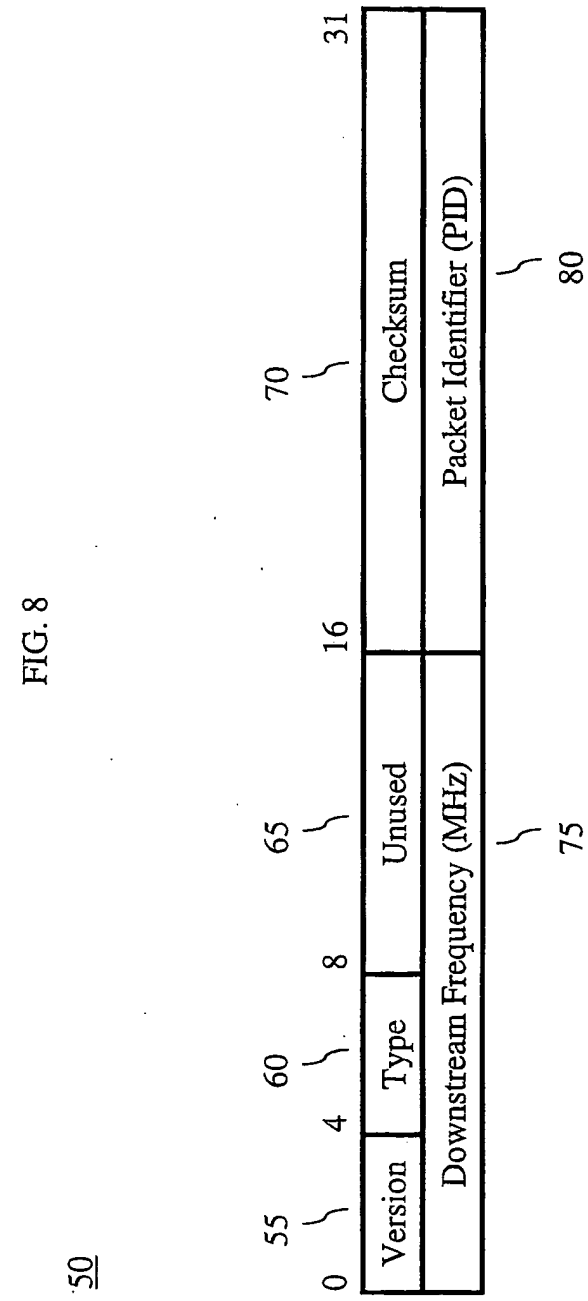

50
0
55
4
60
8
65
16
70
31
Version
Type
Unused
Checksum
Downstream Frequency (MHz)
Packet Identifier (PID)
75
80

FIG. 9

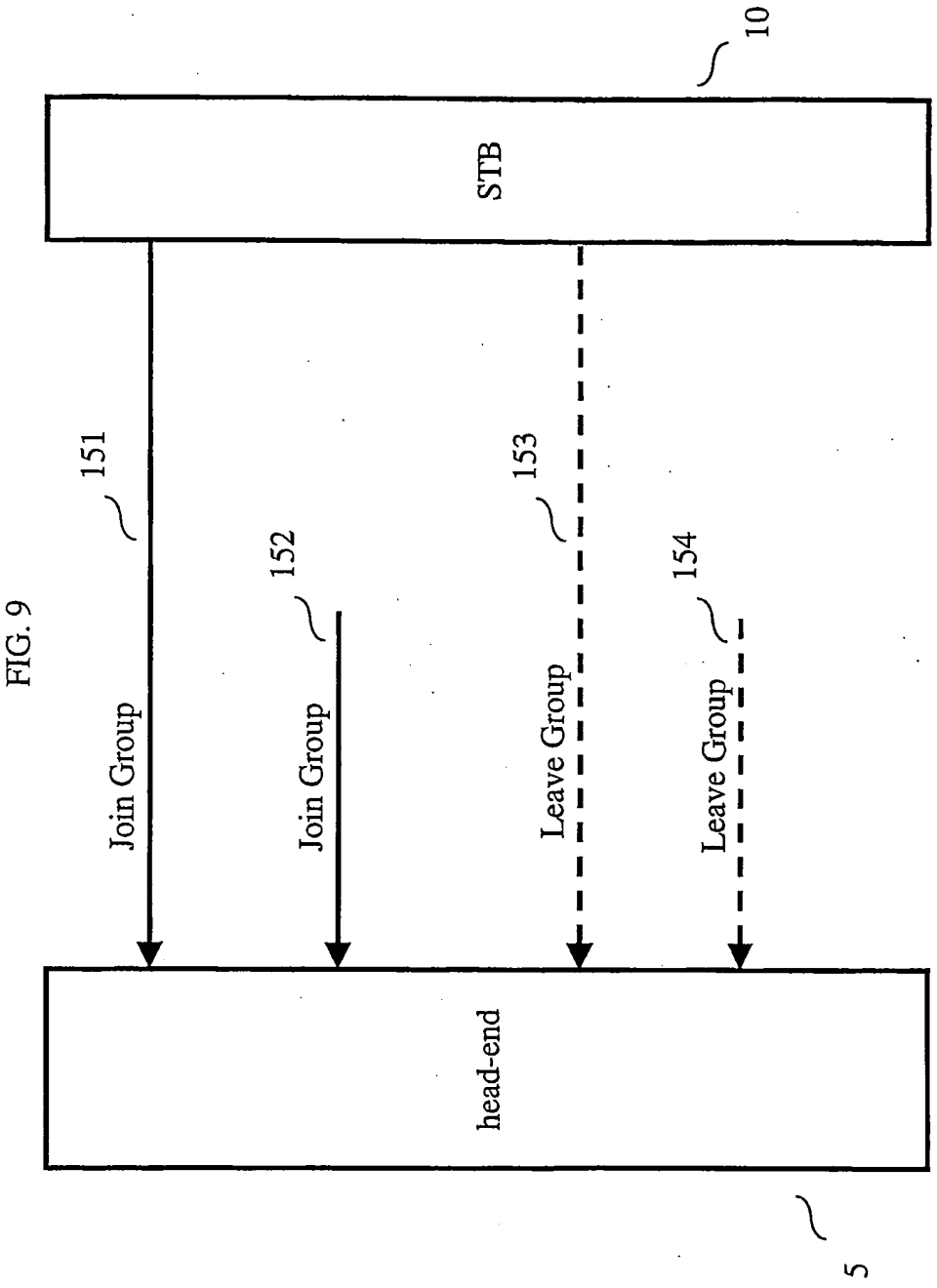

10
STB
151
Join Group
152
Join Group
153
Leave Group
154
Leave Group
head-end
5

FIG. 10

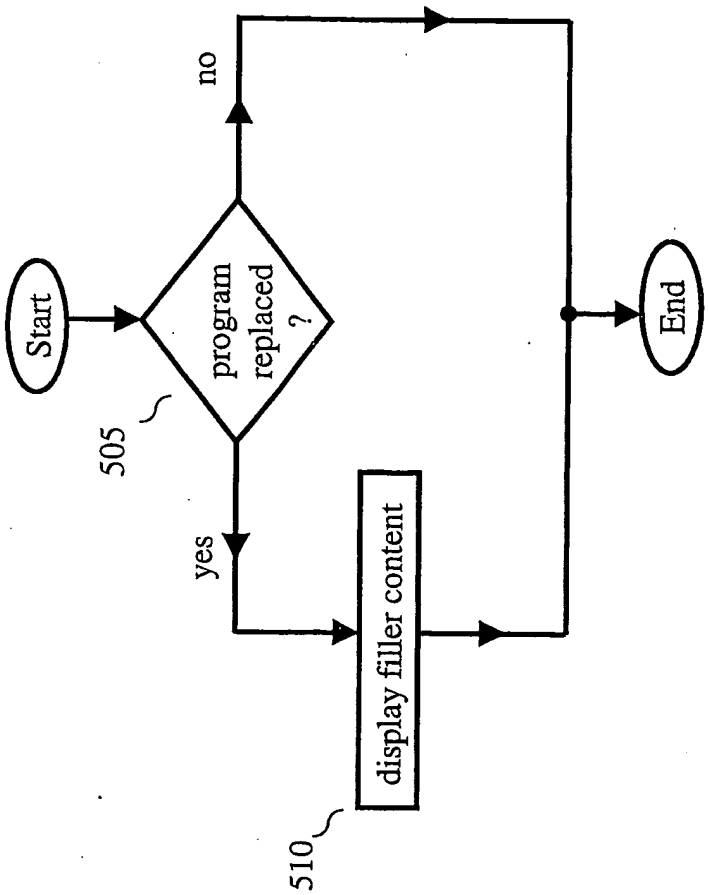
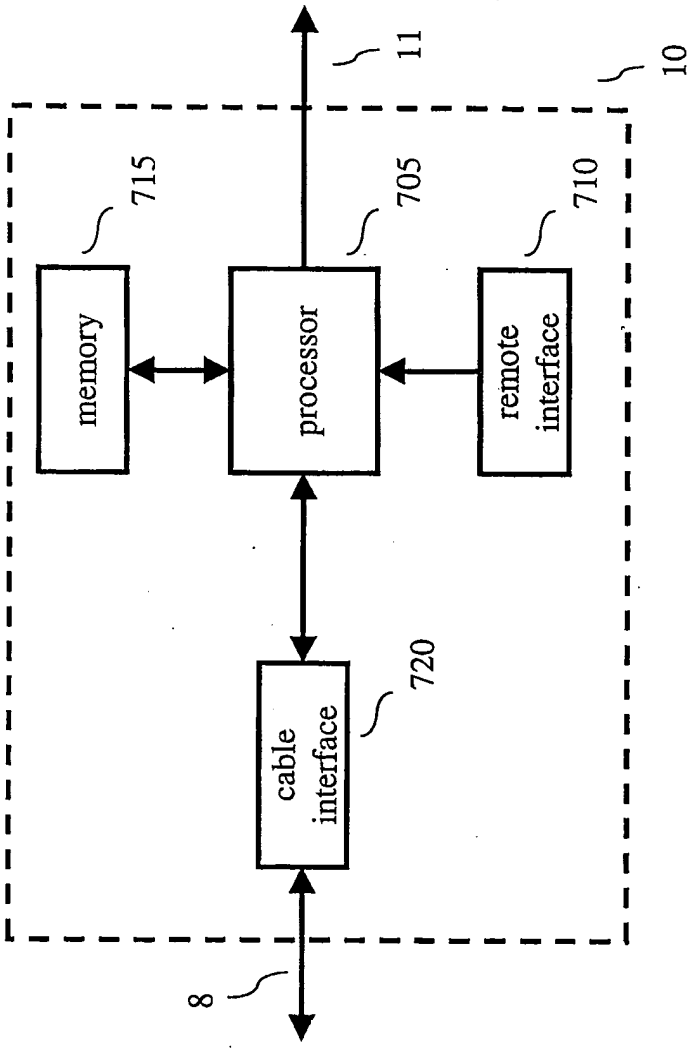

Start
program replaced ?
505
no
yes
display filler content
510
End

FIG. 11


11
10
715
705
710
memory
processor
remote interface
720
cable interface
8